

ANTISTATIC FILM AND PROCESS FOR ITS MANUFACTURE

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ABSTRACT OF THE DISCLOSURE

An antistatic film with a surface resistivity of  
10<sup>13</sup> Ω/□, comprising a metal oxide and conductive  
10 ultrafine particle mixed layer formed on the surface of a  
film, and a process for manufacture of the antistatic  
film which comprises coating the surface of a self-  
supporting film, obtained by casting and drying a  
solution of a heat-resistant resin precursor, with a  
15 mixture obtained by uniformly combining a metal compound  
which converts to a metal oxide upon heating, conductive  
ultrafine particles and a solvent, and then heating it to  
dryness, removing the solvent and cyclizing the heat-  
resistant resin precursor. The film exhibits improved  
20 antistatic retention with no reduction in its original  
mechanical properties and formed without the use of  
special equipment such as a sputtering apparatus, as well  
as a process for its manufacture.